

042905

FORM PTO-1390  
(REV. 12-2004)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER  
BOUL 3501TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

NOT YET CLASSIFIED  
807533479INTERNATIONAL APPLICATION NO.  
PCT/GB2003/004768INTERNATIONAL FILING  
DATE  
03 November 2003PRIORITY DATE CLAIMED  
01 November 2002

## TITLE OF INVENTION

A MICROFABRICATED FLUIDIC DEVICE FOR FRAGMENTATION

## APPLICANT(S) FOR DO/EO/US

KARLSEN, Frank; LICHTENBERG, Jan; VERPOORTE, Elisabeth

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

## Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A Declaration and Power of Attorney
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☐ Other items or information: A marked-up version of the substitute specification

BEST AVAILABLE COPY

21. The following fees are submitted:

- ☒ a) Basic national fee.....\$300.00  
☒ b) Examination fee.....\$200.00  
☒ c) Search fee.....\$500.00

TOTAL OF ABOVE CALCULATIONS = \$1,000.00

☐ Additional fee for specification and drawings filed in paper over 100 sheets  
(excluding sequence listing or computer program listing in an electronic medium).  
The fee is \$250 for each additional 50 sheets of papers or fraction thereof.

Total Sheets 41 - 100 = \_\_\_\_\_ ÷ 50 = \_\_\_\_\_ x \$250 = \$ \_\_\_\_\_  
(round up to whole #)

ENTER APPROPRIATE BASIC FEE AMOUNT =

Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months  
from the earliest claimed priority date (37 CFR 1.492(e)).

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	36 - 20 =	16	x \$50.00
Independent claims	1 - 3 =		x \$200.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00

TOTAL OF ABOVE CALCULATIONS = \$1800.00

☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above  
are reduced by 1/2. +

SUBTOTAL = \$

Processing fee of \$130.00 for furnishing the English translation later than 30 months  
from the earliest claimed priority date (37 CFR 1.492(f)).

TOTAL NATIONAL FEE = \$1800.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be  
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +

TOTAL FEES ENCLOSED = \$1800.00

Amount to be refunded:	\$
charged:	\$1800.00

- a. ☒ A check in the amount of \$1800.00 to cover the above fees is enclosed.  
b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.  
c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any  
overpayment to Deposit Account No. 19-1345. A duplicate copy of this sheet is enclosed.  
d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card  
information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR  
1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Paul I. J. Fleischut  
Senniger Powers  
One Metropolitan Square  
16th Floor  
St. Louis, Missouri 63102  
(314) 231-5400  
(314) 231-4342

SIGNATURE

Paul I. J. Fleischut  
NAME

35,513 April 29, 2005  
REGISTRATION NUMBER

FEE TRANSMITTAL

10/533479

Application Number NOT YET ASSIGNED  
Filing Date April 29, 2005  
Confirmation No. NOT YET ASSIGNED  
Inventor(s) Frank Karlsen, et al.  
Attorney Docket Number BOUL 3501

Art Unit NOT YET ASSIGNED

JC20 Rec'd PCT/PTO 29 APR 2005

[ ] Applicant claims small entity status.

**METHOD OF PAYMENT**

- [ ] The Commissioner is hereby authorized to charge the indicated fees to Deposit Account No. 19-1345. The Commissioner is hereby authorized to charge any under payment or credit any over payment to Deposit Account No. 19-1345.
- [X] Check Enclosed. The Commissioner is hereby authorized to charge any under payment or credit any over payment to Deposit Account No. 19-1345.

**FEE CALCULATION**

1. [X] BASIC FILING, SEARCH AND EXAMINATION FEES  
(Type: U.S. PCT National) Subtotal (1) \$1000.00
2. [X] EXCESS CLAIM FEES
- Total Claims 36 - 20 (HP) = 16 x Fee 50 = \$800.00  
Indep Claims 1 - 3 (HP) =      x Fee 200 = \$ N/A  
Multiple Dependent Claims Fee \$ ---  
(HP = highest number of claims paid for)  
Subtotal (2) \$800.00
3. [X] APPLICATION SIZE FEE
- Total Pages 41 - 100 =      ÷ 50 =      x \$250 = \$       
(Application + Drawings) (round up to whole #)  
Subtotal (3) \$ N/A
4. [ ] OTHER FEE(S)
- [ ]      month extension of time  
[ ] Information disclosure statement  
[ ] 37 CFR 1.17(q) processing fee  
[ ] Non-English specification  
[ ] Notice of Appeal  
[ ] Filing a brief in support of appeal  
[ ] Request for oral hearing  
[ ] Other:
- Subtotal (4) \$1800.00

TOTAL AMOUNT OF PAYMENT \$1800.00

Paul I. J. Fleischut April 29, 2005  
Paul I. J. Fleischut, Reg. No. 35,513 Date  
Telephone: 314-231-5400

PIF/leb  
Express Mail Label No. EV 455484043 US